

SRS-77G

SERVICE MANUAL



US Model
Canadian Model
AEP Model
E Model

SPECIFICATIONS

Amplifier section

Power output 5 W + 5 W with the internal batteries
10 W + 10 W with the car battery
Input Speaker cord equipped with stereo miniplug (1.5 m)
Input impedance 100 ohms (at 1 kHz, with the DIRECT/AMP selector set to AMP)

Speaker section

System Full-range
Closed type
Speaker unit Full range: ø 65 mm
(ø 2 5/8 inches)
Passive radiator: ø 65 mm
(ø 2 5/8 inches)
Input impedance 8 ohms (with the DIRECT/AMP selector set to DIRECT)
Power handling capacity Maximum 25 W (with the DIRECT/AMP selector set to DIRECT)

General

Power requirements
External power requirements
DC IN 9-12 V jack accepts:
Sony DCC-16A car battery cord (optional)
Sony AC-D468 AC power adaptor (optional)
Internal power requirements
DC 9 V, six R14 (size C) batteries per speaker

Battery life

	at 150 mW + 150 mW output	at 50 mW + 50 mW output
Sony battery SUM-2 (NS)	Approx. 10	Approx. 30
Sony alkaline battery AM2 (N)	Approx. 20	Approx. 60

Dimensions Approx. 107 × 197 × 140 mm
(w/h/d)
(4 1/4 × 7 7/8 × 5 5/8 inches)
incl. projecting parts and controls
Weight Approx. 1.2 kg (2 lb 10 oz) per speaker
not incl. batteries or other accessories
Supplied accessories
Connecting cord (1)
Battery tube (2)
Plug adaptor (1)

1. LEAD WIRES ARRANGEMENT

Secure lead wires from CN201 (CN401) and speaker with a clamp.

(): R-CH

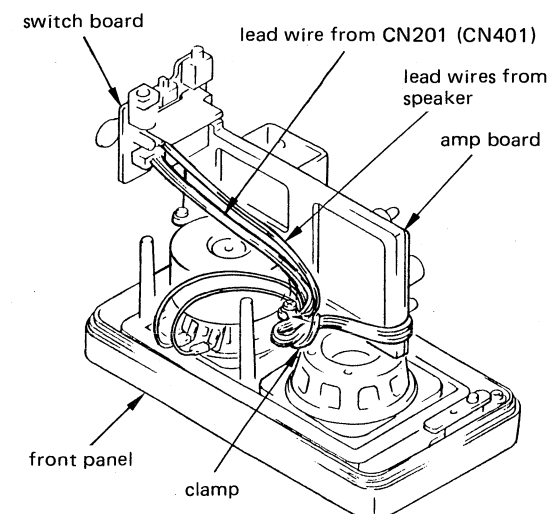


Illustration: L-CH

Roll lead wires from switch board up in cushion and put them into speaker cabinet.

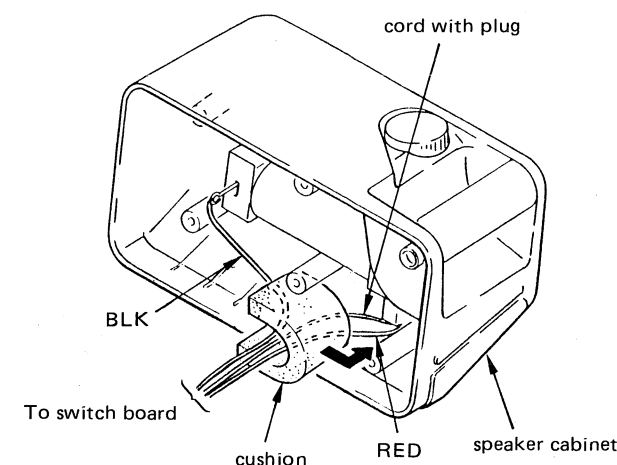


Illustration: R-CH

Thread lead wire from CN102 (CN302) between C104 (C305) and C105 (C304), C102 (C302) and C103 (C303) as illustrated below.

(): R-CH

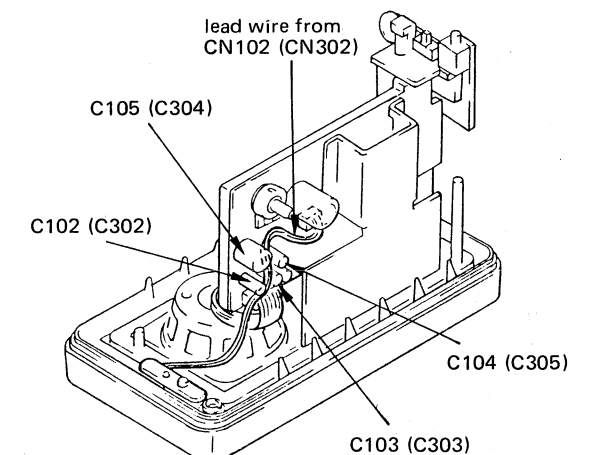


Illustration: L-CH

STEREO ACTIVE SPEAKER SYSTEM
SONY

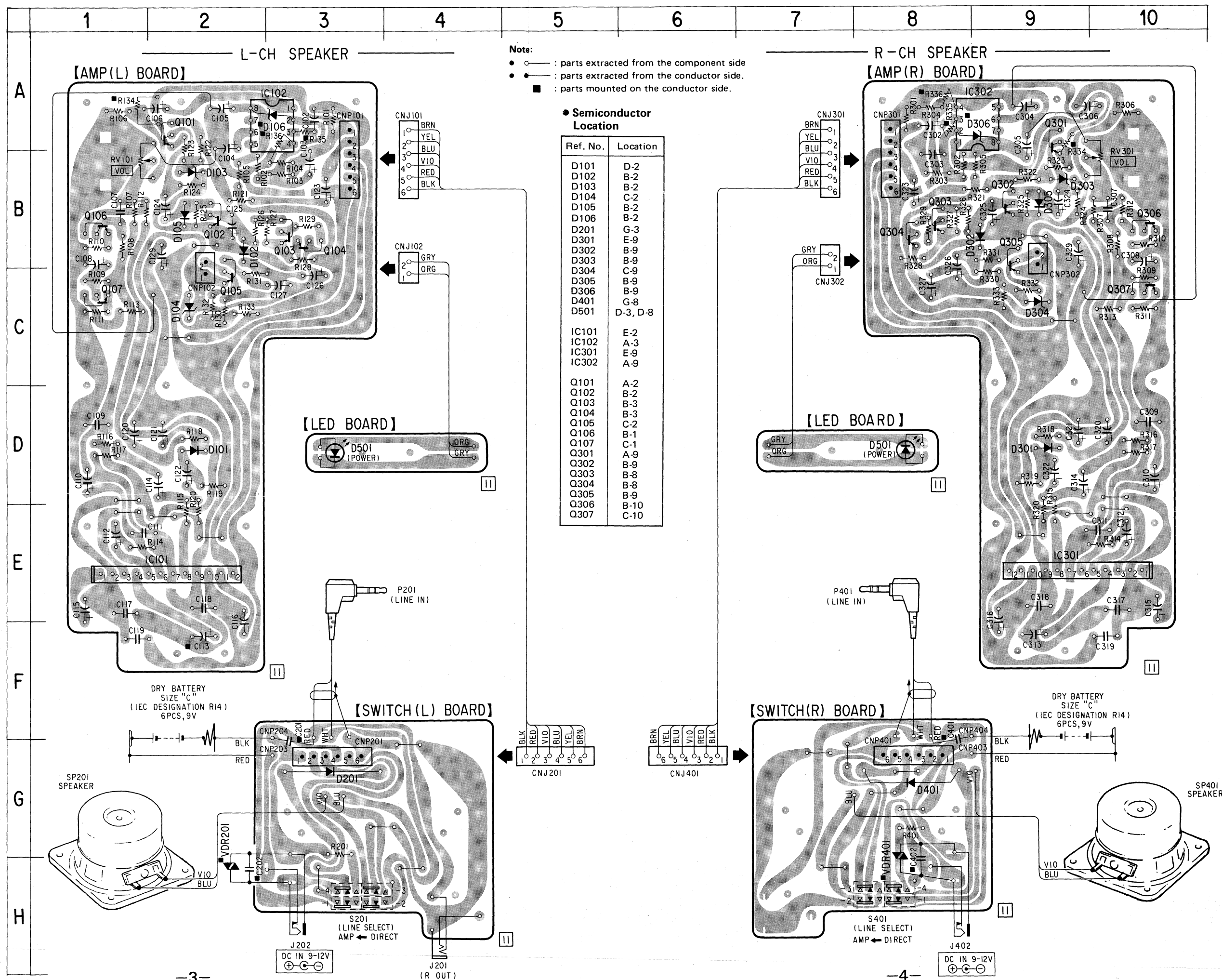


- **Semiconductor Lead Layouts**

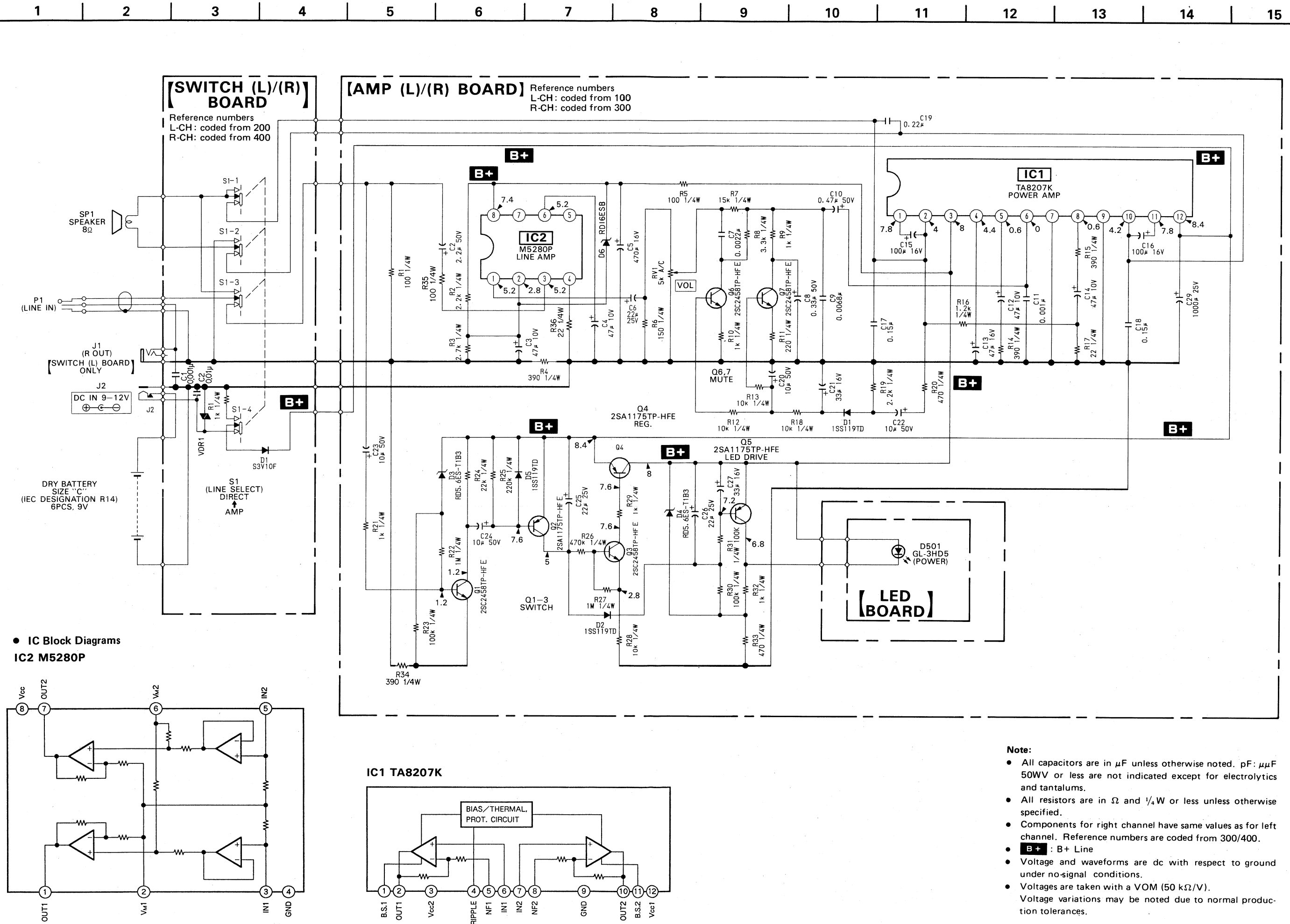
A diagram showing a cross-section of a three-wire cable. It consists of three vertical conductors labeled E, C, and B from left to right. These conductors are enclosed within a larger, rounded outer sheath.

Diagram of a key with labels 'letter side' pointing to the head and 'E', 'C', 'B' pointing to the bitting.

The diagram shows a vertical rod with a central section labeled 'cathode' and the lower section labeled 'anode'.



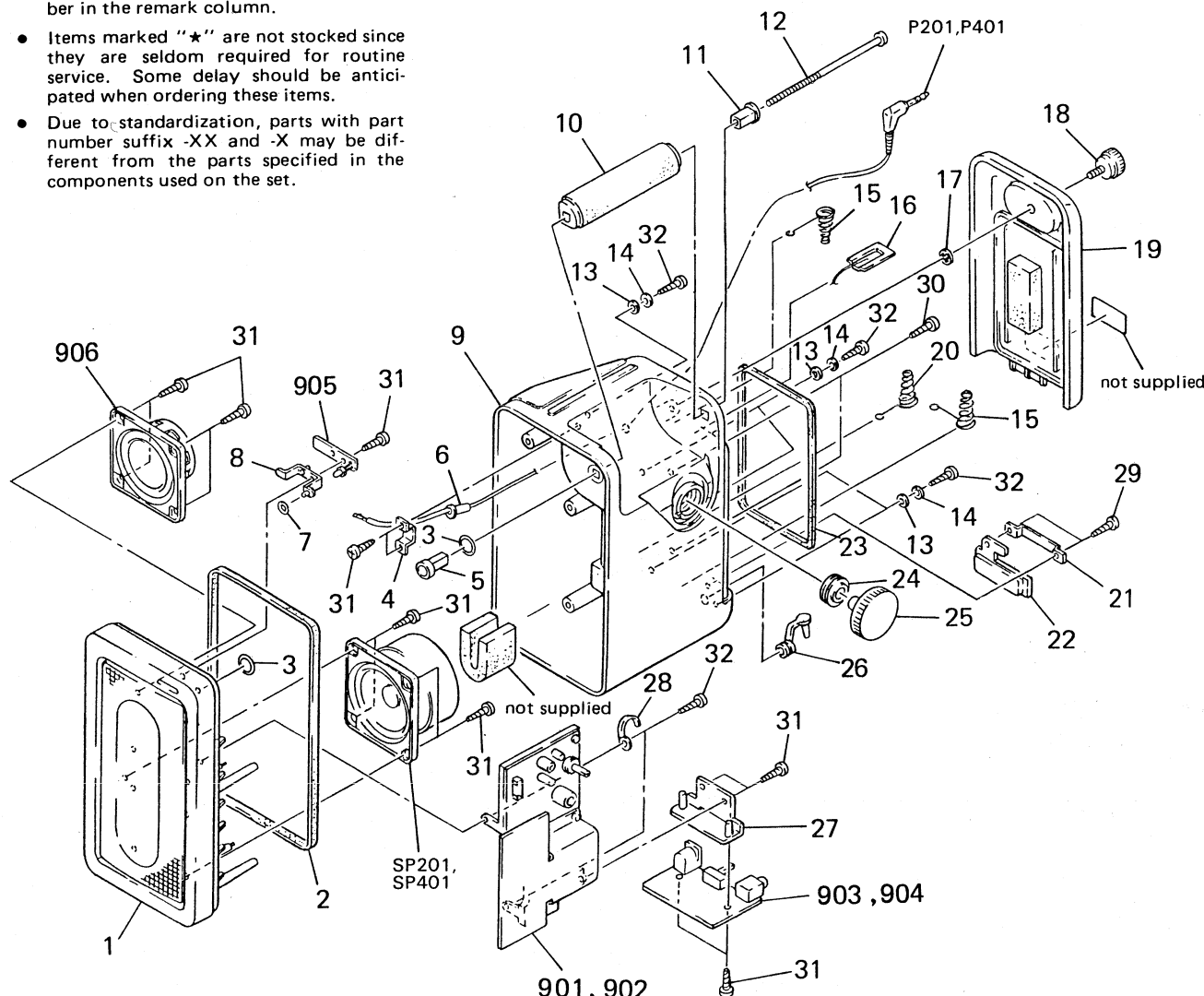
3. SCHEMATIC DIAGRAM



4. EXPLODED VIEW

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	X-2125-217-1 X-2125-218-1	PANEL ASSY (LEFT), FRONT PANEL ASSY (RIGHT), FRONT		22	2-135-608-01 2-135-609-01	PACKING (SWITCH) (RIGHT) PACKING (SWITCH) (LEFT)	
2	2-135-622-01	PACKING (FRONT)		23	2-135-621-01	PACKING (BATTERY)	
3	3-884-053-00	RING (O)		24	3-887-932-00	PACKING, KNOB	
4	*2-135-615-01	BRACKET (CORD)		25	2-135-616-01 2-135-617-01	KNOB (LEFT) (VOL) KNOB (RIGHT) (VOL)	
5	2-135-611-01	HOLDER (B) (HANDLE)		26	3-326-520-01	PACKING, HP JACK	
6	2-512-409-11	BUSHING, CABLE		27	*2-135-618-01	HOLDER (JACK)	
7	3-326-560-02	RING (DIA. 2.5XDIA. 4.5), O		28	3-703-150-11	CLAMP	
8	*2-135-610-01	HOLDER, LED		29	2-135-637-01	SCREW (3X8), +P TAPPING	
9	2-135-629-01 2-135-630-01	CABINET (REAR) (RIGHT) CABINET (REAR) (LEFT)		30	7-685-146-14	SCREW +P 3X8 TYPE2 NON-SLIT	
10	2-135-626-01	HANDLE		31	7-685-646-79	SCREW +BVT 3X8 TYPE2 N-S	
11	2-135-613-01	HOLDER (HANDLE)		32	7-685-648-14	SCREW +BVT 3X12 TYPE2 N-S	
12	2-135-636-01	SCREW (MAX110), +P		901	*1-630-349-11	PC BOARD, AMPLIFIER (L)	
13	2-135-652-01	RING, RUBBER		902	*1-630-350-11	PC BOARD, AMPLIFIER (R)	
14	7-623-924-11	WASHER 3.0, NYLON		903	*1-630-351-11	PC BOARD, SWITCH (L)	
15	2-135-614-01	SPRING		904	*1-630-352-11	PC BOARD, SWITCH (R)	
16	3-894-933-01	TERMINAL, + BATTERY		905	*1-630-353-11	PC BOARD, LED	
17	3-887-920-00	WASHER, NYLON		906	1-544-139-11	PASSIVE RADIATOR	
18	2-135-638-01	KNOB (BATTERY CASE LID)		P201	1-574-715-11	CORD (WITH PLUG)	
19	2-135-624-01 2-135-625-01	LID (LEFT), BATTERY CASE LID (RIGHT), BATTERY CASE		P401	1-574-715-11	CORD (WITH PLUG)	
20	3-894-904-01	TERMINAL, BATTERY		SP201	1-544-138-11	SPEAKER	
21	*2-135-612-01	HOLDER (BATTERY)		SP401	1-544-138-11	SPEAKER	

5. ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF: μ F, PF: μ MF.

RESISTORS

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORS

In each case, U: μ , for example:

UA....: μ A...., UPA....: μ PA....,
UPC....: μ PC, UPD....: μ PD....

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
901	*1-630-349-11	PC BOARD, AMPLIFIER (L)	CNP401*1-564-509-11	PLUG, CONNECTOR 6P	
902	*1-630-350-11	PC BOARD, AMPLIFIER (R)	CNP403*1-564-187-00	PIN, CONNECTOR	
903	*1-630-351-11	PC BOARD, SWITCH (L)	CNP404*1-564-187-00	PIN, CONNECTOR	
904	*1-630-352-11	PC BOARD, SWITCH (R)	CNP405*1-564-187-00	PIN, CONNECTOR	
905	*1-630-353-11	PC BOARD, LED	CNP406*1-564-187-00	PIN, CONNECTOR	
906	1-544-139-11	PASSIVE RADIATOR	CNP407*1-564-187-00	PIN, CONNECTOR	
C101	1-161-039-00	CERAMIC 0.001MF 10% 25V	D101	8-719-911-19	DIODE 1SS119
C102	1-124-925-11	ELECT 2.2MF 20% 50V	D102	8-719-911-19	DIODE 1SS119
C103	1-124-446-11	ELECT 47MF 20% 10V	D103	8-719-109-90	DIODE RD5.6ES-B3
C104	1-124-446-11	ELECT 47MF 20% 10V	D104	8-719-109-90	DIODE RD5.6ES-B3
C105	1-126-103-11	ELECT 470MF 20% 16V	D105	8-719-911-19	DIODE 1SS119
C106	1-126-233-11	ELECT 22MF 20% 25V	D106	8-719-110-43	DIODE RD16ESB
C107	1-130-475-00	MYLAR 0.0022MF 5% 50V	D201	8-719-503-40	DIODE S3V40
C108	1-124-252-00	ELECT 0.33MF 20% 50V	D401	8-719-503-40	DIODE S3V40
C109	1-130-481-00	MYLAR 0.0068MF 5% 50V	D501	8-719-300-71	DIODE SEL-2210R
C110	1-124-902-00	ELECT 0.47MF 20% 50V	IC101	8-759-230-13	IC TA8207K
C111	1-161-039-00	CERAMIC 0.001MF 10% 25V	IC102	8-759-605-04	IC M5280P
C112	1-124-446-11	ELECT 47MF 20% 10V	J201	1-507-851-00	JACK
C113	1-124-477-11	ELECT 47MF 20% 16V	J202	1-507-563-00	JACK, DC
C114	1-124-446-11	ELECT 47MF 20% 10V	J402	1-507-563-00	JACK, DC
C115	1-126-101-11	ELECT 100MF 20% 16V	P201	1-574-715-11	CORD (WITH PLUG)
C116	1-126-101-11	ELECT 100MF 20% 16V	P401	1-574-715-11	CORD (WITH PLUG)
C117	1-130-497-00	MYLAR 0.15MF 5% 50V	Q101	8-729-119-78	TRANSISTOR 2SC2785
C118	1-130-497-00	MYLAR 0.15MF 5% 50V	Q102	8-729-173-38	TRANSISTOR 2SA733
C119	1-162-562-11	CERAMIC 0.22MF 16V	Q103	8-729-119-78	TRANSISTOR 2SC2785
C120	1-123-875-11	ELECT 10MF 20% 50V	Q104	8-729-173-38	TRANSISTOR 2SA733
C121	1-124-963-11	ELECT 33MF 20% 16V	Q105	8-729-173-38	TRANSISTOR 2SA733
C122	1-123-875-11	ELECT 10MF 20% 50V	Q106	8-729-119-78	TRANSISTOR 2SC2785
C123	1-123-875-11	ELECT 10MF 20% 50V	Q107	8-729-119-78	TRANSISTOR 2SC2785
C124	1-123-875-11	ELECT 10MF 20% 50V	R101	1-249-405-11	CARBON 100 5% 1/4W
C125	1-126-233-11	ELECT 22MF 20% 25V	R102	1-249-421-11	CARBON 2.2K 5% 1/4W
C126	1-126-233-11	ELECT 22MF 20% 25V	R103	1-249-422-11	CARBON 2.7K 5% 1/4W
C127	1-124-963-11	ELECT 33MF 20% 16V	R104	1-249-412-11	CARBON 390 5% 1/4W
C128	1-161-051-00	CERAMIC 0.01MF 10% 25V	R105	1-249-405-11	CARBON 100 5% 1/4W
C129	1-124-557-11	ELECT 1000MF 20% 25V	R106	1-249-407-11	CARBON 150 5% 1/4W
C201	1-124-472-11	ELECT 470MF 20% 10V	R107	1-249-431-11	CARBON 15K 5% 1/4W
C401	1-124-472-11	ELECT 470MF 20% 10V	R108	1-249-423-11	CARBON 3.3K 5% 1/4W
CMP201*1-564-509-11		PLUG, CONNECTOR 6P	R109	1-249-417-11	CARBON 1K 5% 1/4W
CNP101*1-564-509-11		PLUG, CONNECTOR 6P	R110	1-249-417-11	CARBON 1K 5% 1/4W
CNP102*1-564-505-11		PLUG, CONNECTOR 2P	R111	1-249-409-11	CARBON 220 5% 1/4W
CNP203*1-564-187-00		PIN, CONNECTOR	R112	1-249-429-11	CARBON 10K 5% 1/4W
CNP204*1-564-187-00		PIN, CONNECTOR	R113	1-249-429-11	CARBON 10K 5% 1/4W
CNP205*1-564-187-00		PIN, CONNECTOR	R114	1-249-412-11	CARBON 390 5% 1/4W
CNP206*1-564-187-00		PIN, CONNECTOR	R115	1-249-412-11	CARBON 390 5% 1/4W
CNP207*1-564-187-00		PIN, CONNECTOR			

Ref.No.	Part No.	Description
R116	1-249-418-11	CARBON 1.2K 5% 1/4W
R117	1-249-397-11	CARBON 22 5% 1/4W
R118	1-249-429-11	CARBON 10K 5% 1/4W
R119	1-249-421-11	CARBON 2.2K 5% 1/4W
R120	1-249-413-11	CARBON 470 5% 1/4W
R121	1-249-417-11	CARBON 1K 5% 1/4W
R122	1-247-903-00	CARBON 1M 5% 1/4W
R123	1-249-441-11	CARBON 100K 5% 1/4W
R124	1-249-433-11	CARBON 22K 5% 1/4W
R125	1-247-887-00	CARBON 220K 5% 1/4W
R126	1-247-895-00	CARBON 470K 5% 1/4W
R127	1-247-903-00	CARBON 1M 5% 1/4W
R128	1-249-429-11	CARBON 10K 5% 1/4W
R129	1-249-417-11	CARBON 1K 5% 1/4W
R130	1-249-441-11	CARBON 100K 5% 1/4W
R131	1-249-441-11	CARBON 100K 5% 1/4W
R132	1-249-417-11	CARBON 1K 5% 1/4W
R133	1-249-413-11	CARBON 470 5% 1/4W
R201	1-249-417-11	CARBON 1K 5% 1/4W
RV101	1-238-537-11	RES, VAR, CARBON 5K (VOL)
S201	1-554-295-00	SWITCH, SLIDE (LINE SELECT)
S401	1-554-295-00	SWITCH, SLIDE (LINE SELECT)
SP201	1-544-138-11	SPEAKER
SP401	1-544-138-11	SPEAKER
VDR201	1-807-601-11	VARISTOR, CERAMIC
VDR401	1-807-601-11	VARISTOR, CERAMIC

ACCESSORY & PACKING MATERIAL

1-465-184-11	(US,Canadian,AEP)...ADAPTER, AC
1-566-410-21	ADAPTOR, PLUG
1-574-024-11	CORD (WITH PLUG)
*2-135-602-01	CUSHION (UPPER)
*2-135-603-01	CUSHION (LOWER)
*2-135-605-01	INDIVIDUAL CARTON
*2-135-635-01	TUBE (BATTERY 2 TYPE)
3-569-992-00	LABEL, CAUTION
3-750-196-11	(AEP,E).....MANUAL, INSTRUCTION
3-750-196-21	(US,Canadian)...MANUAL, INSTRUCTION